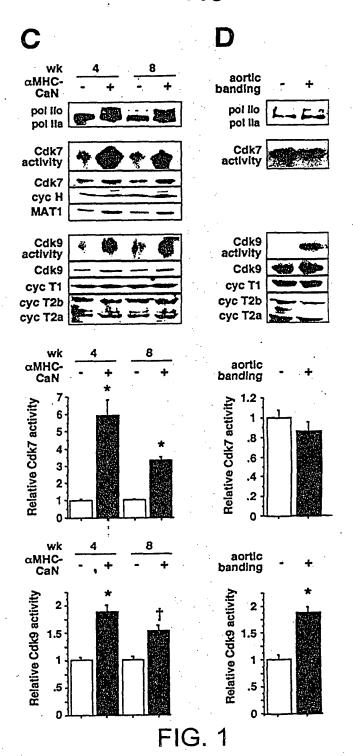
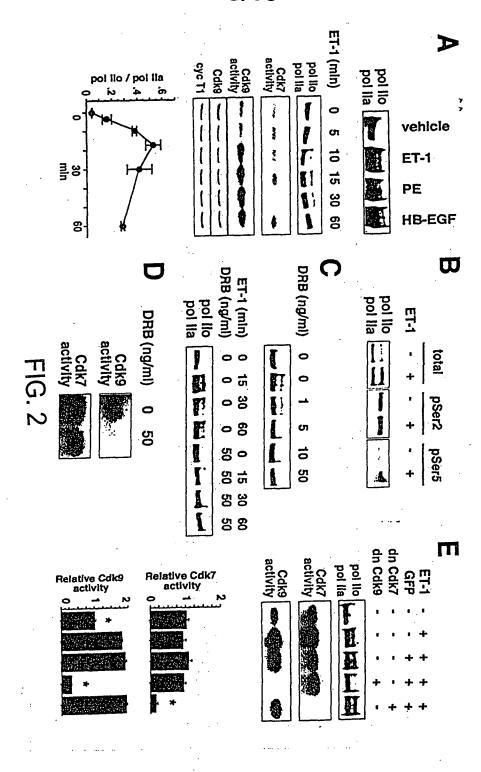
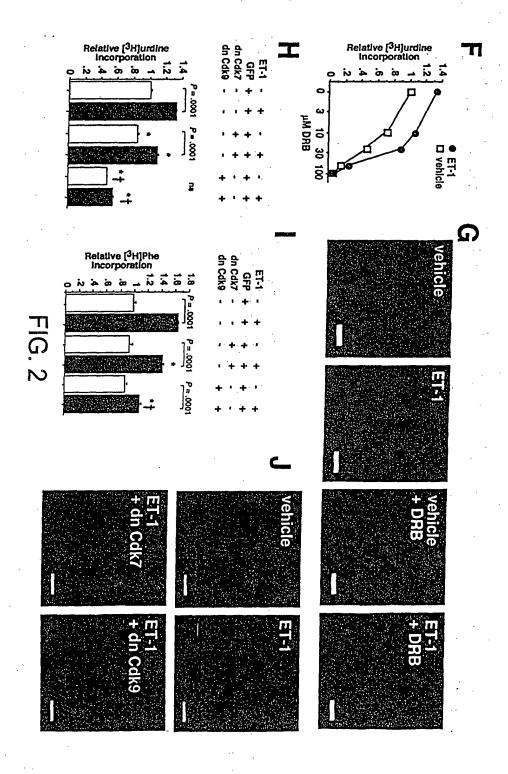
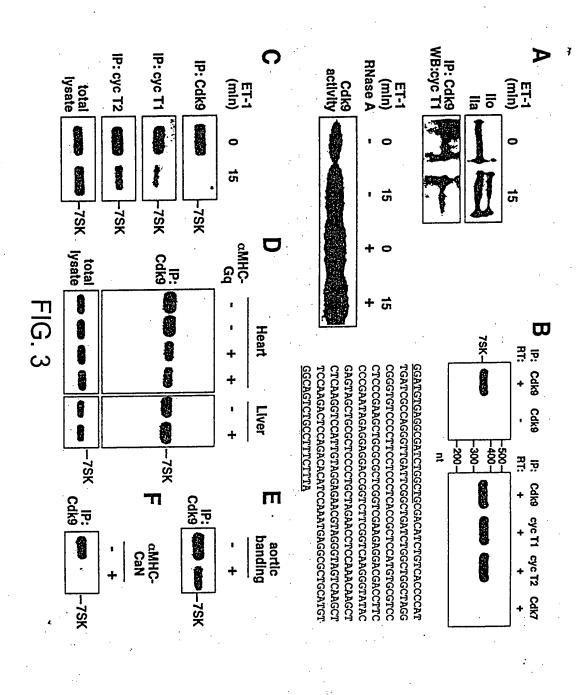


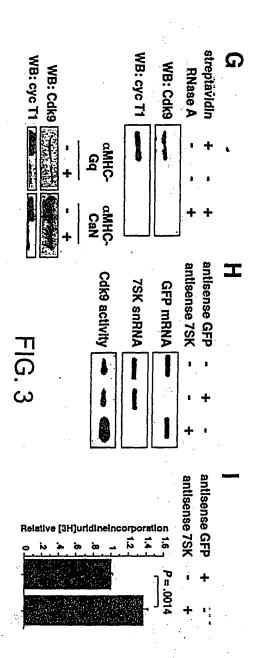
FIG. 1

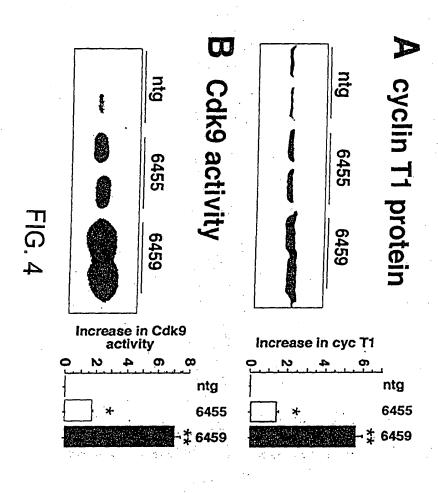


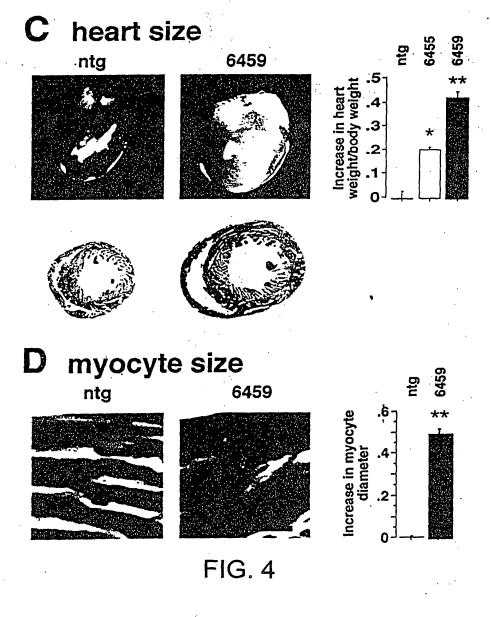












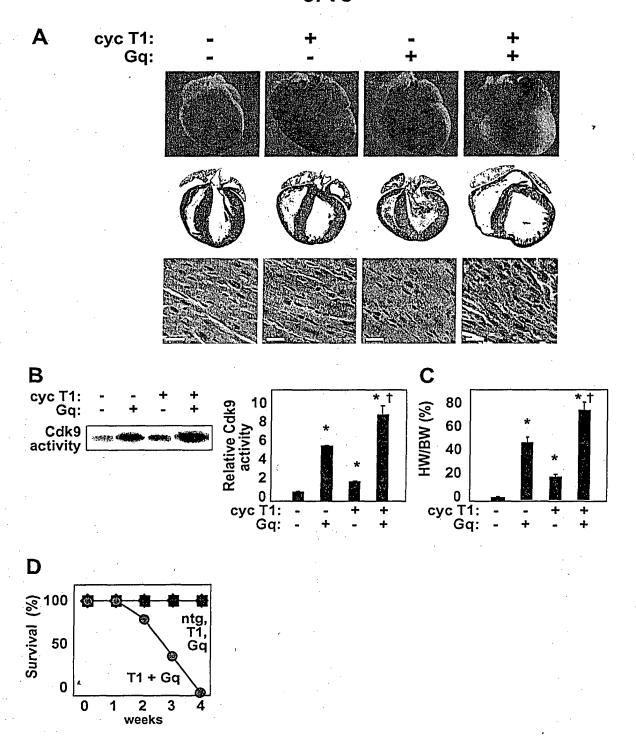


FIG. 5

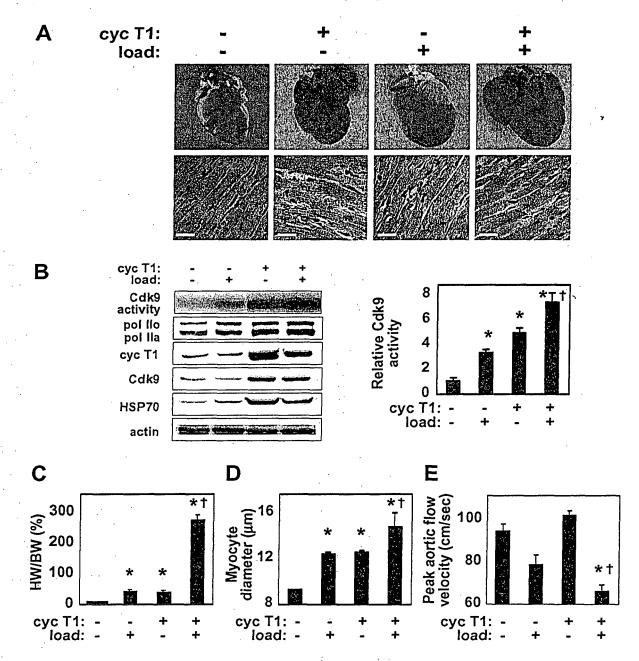
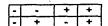


FIG. 6

cyclin T1 Gq





-3 -2 -1 0 1 2 3

INDUCED SYNERGISTICALLY BY CYCLIN T1 + GQ:

26S proteasome-associated pad1 homolog aldehyde dehydrogenase family 1, subfamily A1 annexins A1, A3 BCL2/adenovirus E1B 19 kDa-interacting protein 1, NiP3 casein kinase 1, 8 CD44 antigen ceruloplasmin chloride intracellular channel 4 (mitochondrial) connective tissue growth factor cytochrome P450, 1b1, benz[a]anthracene inducible cytokine receptor-like factor 1 DEAD (Asp-Giu-Ala-Asp) box polypeptide 3 DEAD/H (Asp-Giu-Ala-Asp) box polypeptide 50 dual specificity phosphatase 6 elastin endothelin 1 fibroblast growth factor inducible 14 fibulin 2 FK506 binding protein 7 (23 kDa) growth arrest specific 6 H3 histone, family 3B heat shock 27kD protein 2 haparin binding epidermal growth factor-like growth factor NV type I enhancer binding protein 1 hypoxia inducible factor 1a insulin-like growth factor binding protein 7 integrin β5 lipocalin 7 LPS-induced TN factor fixed factor 1 factor 1 fixed facto

nuclear protein 1
PDZ and LIM domain 3
peptidylprotyl isomerase C
peroxiredoxin 4
phosphatidylinositoi-4-phosphate 5-kinase, type 1 α
phosphofructokinase, platelet
phospholipase A2, group IVA
procollagen, type V, α2; type Vill, α1
prolile 4-hydroxylase, α1
prolyl 4-hydroxylase, β
polypeptide
prostagiandin 12 (prostacyclin) synthase
quaking
ras homolog gone family, member J
RAS p21 protein activator 3
reolin
Rho-associated colled-coll forming kinase 2
ribonuclease, RNase A family 4
RNA polymerase I associated factor, 53 kD
S100 calcium binding protein A6 (calcyclin)
sarcoglycan, β
scavenger receptor class B, member 2
serpin, clade E, member 1, 2
serpin, clade E, member 1, 2
serpin, clade E, member 1
SH3-binding domain glutamic acid-rich protein like
spermidine/spermine N1-acetyl transferase
thrombospondin 1
tissue inhibitor of metalloproteinase 3
transforming growth factor, B1
troponin I, skeletal, slow 1
vascular cell adhesion molecule 1
WW domain-containing protein 4

nestin NIMA-related kinase 7

REPRESSED SYNERGISTICALLY BY CYCLIN T1 + GQ:

acetyl-Coenzyme A dehydrogenase, short chain aldo-keto reductase family 1, member B7 alpha-methylacyl-CoA racemase branched chain ketoacid dehydrogenase E1, β carnitine palmitoyltransferase 2 citrate synthase creatine kinase, muscle cyclin-dependent kinase inhibitor 1C (P57) DEADIH (Asp-Glu-Ala-Asp/His) box polypeptide 16 dihydrollpoamide branched chain transacylase E2 dihydrollpoamide dehydrogenase dihydrollpoamide S-acetyltransferase precursor dodecencyl-Coenzyme A delta isomerase electron transferring flavoprotein, α enoyl coenzyme A hydratase 1, peroxisomal FK506 binding protein 4 (59 kDa) G elongation factor gap junction membrane channel protein α1 GrpE-like 1, mitochondrial heat shock 10 kDa protein 1 (chaperonin 10) heat shock protein, 60 kDa inner membrane protein, mitochondrial

iyayi oxidase metallothionein 1 myomesin 2 myosin light chain, alkali, cardiac atria

3-oxoacid CoA transferase

Interferon activated gene 203
Interferon activated gene 204
Isoclirate dehydrogenase 3 (NAD+) α
Isoclirate dehydrogenase 3 (NAD+), γ
milochondrial ribosomal protein L12
mitochondrial ribosomal protein L3
NADH dehydrogenase (ublquinone) flavoprotein 2
peroxiredoxin 3
phospholipid transfer protein
phytanoyl-CoA hydroxylase
potassium voltage-gated channel, Shal-related familly,
βrogrammed ceil death 8
proteasome (prosome, macropain) 28 subunit, α
retinoid X receptor γ
secreted modular calcium binding protein 2
septin 4
slaylitransferase 8 (aipha-2, 8-slaylitransferase) D
succinate dehydrogenase complex, subunit A
succinate-Coenzyme A ligase, ADP-forming, β subunit
succinate-Coenzyme A ligase, GDP-forming, β subunit
teranscription elongation factor A (Sil), 3
translocator of inner milochondrial membrane 44

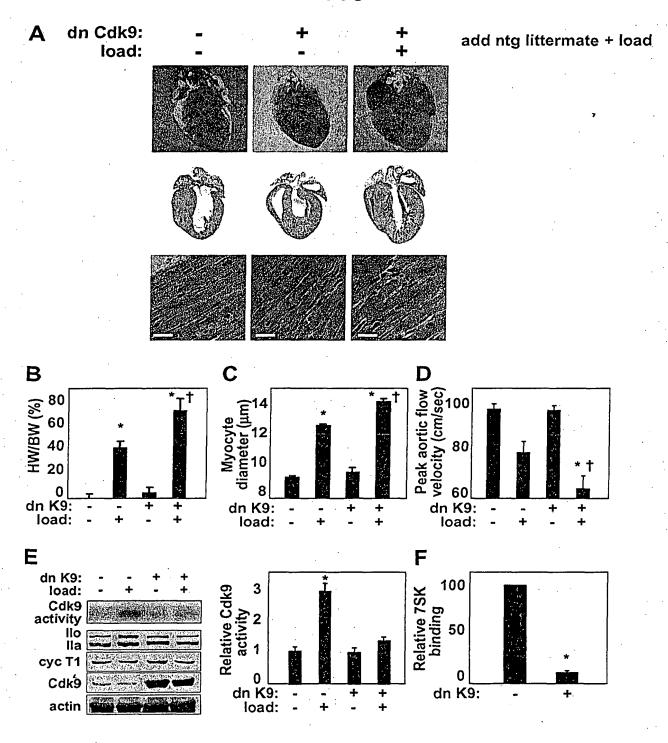
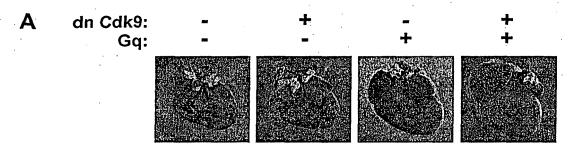


FIG. 8



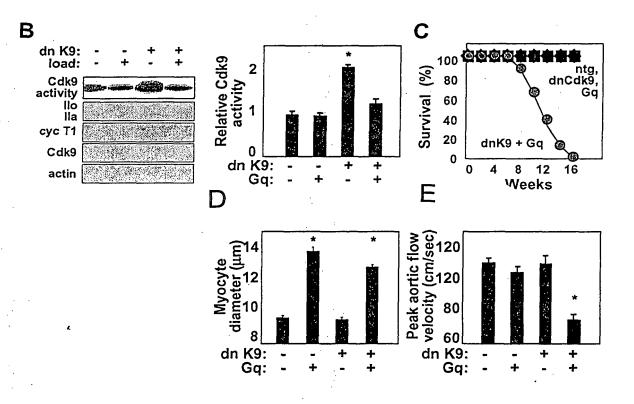


FIG. 9

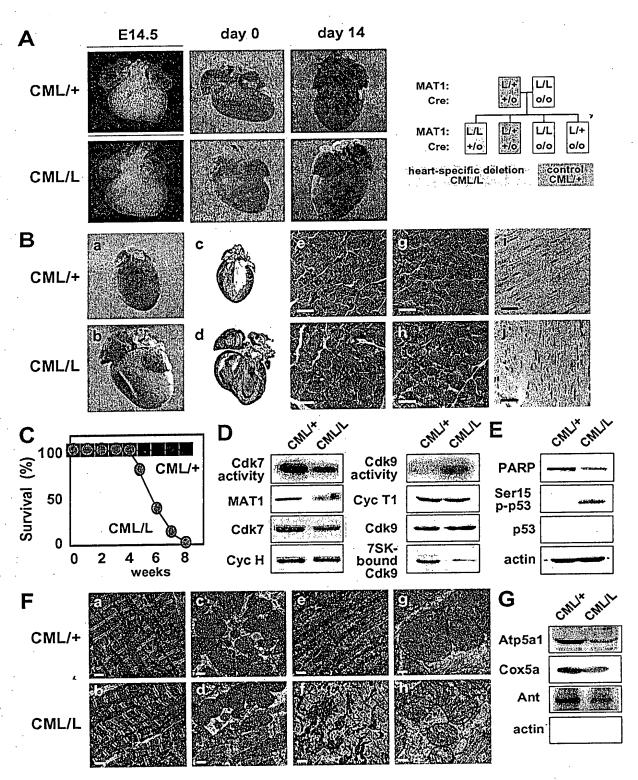


FIG. 10



at the bod of state -3 -2 -1 0 1 2 3

REPRESSED AT 4 WK BY CARDIOMYOCYTE-SPECIFIC DELETION OF MAT1:

REPRESSED AT 4 WK BY CARDIOMYOCYTE-S:

3-oxoacid CoA transferase
acetyl-Coenzyme A dehydrogenase, short chain
BCL2/adenovirus E18 19 kDa-interacting protein 1, NIP3
bone morphogenetic protein 7
branched chain keloacid dehydrogenase E1, beta
cadherin 13
calcium channel, voltage-dependent, T type, alpha 1G
carrillne deficiency-associated gene expressed in ventricle 1
catechol-O-methyltransferase
cilirate synthase
cut-like 1 (Drosophila)
cytochrome c oxidase, subunit Vila 1
DEADH (Asp-Giu-Aia-AspHis) box polypeptide 16
deleted in polyposis 1
dihydrolipoamide branched chain transacylase E2
dihydrolipoamide behydrogenase
dodecencyl-Coenzyme A delta isomerase
electron transferring flavoprotein, alpha
encyl coenzyme A hydratase, short chain, 1, mitochondrial
fibroblast activation protein
FK606 binding protein 4 (69 KDa)
four and a hair LIM domains 2
fumarate hydratase 1
G elongation factor
gap junction membrane channel protein alpha 1
heat shock 10 KDa protein 1 (chaperonin 10)
heat shock protein, 60 KDa
histidine rich calcium binding protein
interferon activated gene 203
iroquois related homeobox 3 (Drosophila)
isocitrate dehydrogenase 3 (NAD+), gamma
isovaleryl coenzyme A dehydrogenase
kit ligand lipin 1
lipocalin 7
metal response element binding transcription factor 2
metaliothionein 1
methylmalonyi-Coenzyme A mutase
mitochondrial ribosomal protein L12
mitochondrial ribosomal protein L34
myeloid leukemia factor 1
myemasia 2 mitochondrial ribosomal protein L34
mysolod leukemia factor 1
mysomesin 2
NADH dehydrogenase (ubiquinone) flavoprotein 2
p300/CBP-associated factor
peroxiredoxin 3
phesphofructokinase, liver, B-type
phespholipid transfer protein
phytanoyl-CoA hydroxylase
plasma membrane associated protein, S3-12
potasstum voltage-gated channel, Shal-related family, 2
programmed cell death 8
prohibitin
protessome (prosome, macropain) 28 subunit, alpha
RAN guanine nucleotide release factor
retinoid X receptor gamma
sequestosome 1
slalyltransferase 8 (alpha-2, 8-slalyltransferase) D
tholase/enoyl-Coenzyme A hydratase, beta subunit
sirtuin 3 (silent mating type information regulation 2, homolog) 3
succinate dehydrogenase complex, subunit A
succinate-Coenzyme A ligase, CDP-forming, beta subunit
thyrold hormone responsive SPOT14 homolog (Ratius)
transcription elongation factor A (Sil), 3
transforming growth factor, beta induced, 68 kDa
transforming growth factor, beta induced, 68 kDa
transforotro of inner mitochondrial membrane 44
ubiquinol-cytochrome c reductase core protein 1
vascular endothelial growth factor B

INDUCED AT 4 WK BY CARDIOMYOCYTE-SPECIFIC DELETION OF MAT1:

26S proteasome-associated pad1 homolog 5' nucleotidase, ecto a disintegrin and metalloproteinase domain 9 actining, alpha 1
acyl-Coenzyme A thloesterase 2, mitochondrial
acyl-Coenzyme A thloesterase 3, mitochondrial
aidehyde dehydrogenase family 1, subfamily A1
annexin A1
annexin A3
arladne homolog 2 (Drosophila)
biotycan annexin A3
arladne homolog 2 (Drosophila)
biglycan
calcium and integrin binding 1 (calmyrin)
cardiac morphogenesis
casein kinase 1, delta
CD24a antigen
CD83 antigen
CD81 antigen
CD81 antigen
chaperonin subunit 8 (theta)
chloride intraceillular channel 4 (mitochondrial)
chloride intraceillular channel 4 (mitochondrial)
chloride intraceillular channel 4 (mitochondrial)
chondrolitin sulfate proteoglycan 2
coagulation factor il (thrombin) receptor
connective tissue growth factor
CREBBP/EP300 inhibitory protein 1
cyclin-dependent kinase inhibitor 1A (P21)
cysteine rich intestinal protein
cysteine rich protein
cytokine receptor-like factor 1
cytotoxic T lymphocyte-associated protein 2 alpha
DEAD/H box polypeptide 50
delodinase, lodothyronine, type II
diaphorase 1 (NADH)
dihydropyrimidinase-like 3
elastin
enabled homolog (Drosophila) diaphorase 1 (NADH)
dihydropyrinidinase-like 3
elastin
enabled homolog (Drosophila)
epidermal growth factor pathway substrate 15
epithelial membrane protein 1
fibulin 2
follistatin-like
four and a half LIM domains 1
glutathione peroxidase 3
glycogenin 1
granulin
GrpE-like 1, mitochondrial
H3 histone, family 3B
heat shock 27kO protein 2
heat shock 70 KDa protein 4
heparin-binding epidermal growth factor
histone H3
HIV-1 Rev binding protein
hypoxia inducible factor 1, aipha subunit
IK cytokine
inhibitor of DNA binding 2
insulin-like growth factor i receptor
integrin aipha 5 (fibronectin receptor aipha)
integrin beta 4 binding protein
integrin beta 5 integrio inked in heat 5
integrin linked kinase
interferon-related developmental regulator 1
tamin A
low-density lipoprotein receptor-related protein lamin A low-density lipoprotein receptor-related protein 10 LPS-induced TN factor lysyl oxidase

MAP kinase-interacting serine/threonine kinase 2 matrix gamma-carboxygiutamate (gla) protein moesin myosin, heavy polypeptide 7, cardiac muscle, beta myotrophin nostin neuturin
Niemann Pick type C2
NS1-associated protein 1-like
nuclear cap binding protein subunit 2, 20kDa
nuclear factor I/X
nuclear protein 1
ornithine decarboxylase antizyme inhibitor
ostoblast specific factor 2 (fasciclin I-like)
paraoxonase 2
PDZ and LIM domain 3
phosphorfuctokinase, platelet
phosphorfuctokinase, platelet
phosphorindine tract binding protein, beta
polypyrimidine tract binding protein 2
procollagen C-proteinase enhancer protein
procollagen, type I, alpha 2
procollagen, type IV, alpha 2
procollagen, type Vil, alpha 5
procollage nostin neurturin quaking ras homolog gene family, member J RAS p21 protein activator 3 ras homolog gene family, member J
RAS p27 protein activator 3
reelin
relino binding protein 1, cellular
RNA binding motif protein 4
RNA polymerase I associated factor, 53 kD
5100 calcium binding protein A10 (calpactin)
5100 calcium binding protein A11 (calizzarin)
5100 calcium binding protein A13
5100 calcium binding protein A3
5100 calcium binding protein A5
serted modular calcium binding protein A5
serted modular calcium binding protein A5
serpin, clade E, member 1
serpin, clade E, member 2
serpin, clade E, member 1
serpin, clade E, member 2
serpin, clade E, member 2
serpin, clade E, member 1
serine protease inhibitor 6
serine/fibreonine kinase 2
slalyitransferase 10
sind associated polypeptide, 30kD
Son of seveniless homolog 1, (Drosophila)
spermidine/spermine N1-acctyl transferase
sphingosine phosphate lyase 1
talin
thrombospondin 1
tissue factor pathway inhibitor
tubby like protein 4
tubulin, alpha 1
tubulin, alpha 1
tubulin carboxyl-terminal esterase L5
tubiquitin carboxyl-terminal hydrolase L1
UDP-glucose dehydrogenase
uridine-cylidine kinase 2